

## Claims

What is claimed is:

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1. A vehicle headlamp operable to form a predetermined light distribution pattern comprising:

a plurality of lamp units employing semiconductor light-emitting elements as light sources, wherein

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the plurality of lamp units include at least two types of lamp units selected from a lamp unit of projector type which is constructed to reflect light output to be converged in a forward direction from a light source by means of a reflector and to radiate the reflected light ahead of a lamp by way of a projection lens provided ahead of the reflector, from a lamp  
15 unit of direct projection type which is constructed to radiate direct light output from the light source ahead of the lamp by way of a condenser lens provided forward of the light source, and from a lamp unit of reflection type which is constructed  
20 to reflect light output from the light source ahead of the lamp by means of the reflector.

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2. The vehicle headlamp according to claim 1, wherein the light distribution pattern is a low-beam light distribution pattern, and a cut-off line of the low-beam light distribution pattern is formed by means of the lamp unit of projector type.

3. A vehicle headlamp operable to form a predetermined light distribution pattern comprising:

a plurality of lamp units employing semiconductor  
5 light-emitting elements as light sources, wherein

the plurality of lamp units include at least two types of lamp units selected from a lamp unit of projector type, a lamp unit of direct projection type, and a lamp unit of reflection type.

10 4. The vehicle headlamp according to claim 3, further comprising a light source, a reflector, and a projection lens and wherein the lamp unit of projector type reflects light output from the light source to be converged in a forward direction by means of the reflector and radiates the reflected light by  
15 way of the projection lens provided ahead of the reflector.

5. The vehicle headlamp according to claim 3, further comprising a light source and a condenser lens, and wherein the lamp unit of direct projection type radiates direct light output from the light source by way of the condenser lens provided  
20 forward of the light source.

6. The vehicle headlamp according to claim 3, further comprising a light source and a reflector, and wherein the lamp unit of reflection type reflects light output from the light source by means of the reflector.

25 7. The vehicle headlamp according to claim 3, wherein

the light distribution pattern is a low-beam light distribution pattern, and a cut-off line of the low-beam light distribution pattern is formed by means of the lamp unit of projector type.